KINGSVILLE DOME URANIUM MINE AREA DATA AND ANALYSIS (A Work in Progress)

June 27, 2013



EPA, Regio<mark>n 6</mark> Dallas, Texas

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Kingsville Dome Project

TNRCC Permit URO2827

Application for Production Area Authorization UR@2827-031

Dallas, Texas

June 25, 1997

3. Mine Area Geology and Hydrology

As has been described in the base permit application, the expansion application and the first two PAA applications, the stratigraphic section of interest at the Kingsville Dome Project is the Pliocene Goliad Formation.

Three mineralized, water-bearing sands have been recognized in the Goliad in an interval from approximately 420 to 810 feet below MSL. These sands vary in thickness from 30 to 50 feet each and have been arbitrarily designated the C, B, and A sands. The B and A sands will be the zones of uranium production. The C sand is shally and unmineralized in this particular production area. The B and A sands are prolific producers of ground water with typical transmissivities of 9,600 gpd/ft.

Underlying the B and A sands is the A clay and the "AA" sand. The A clay is 10 to 20 feet thick within the production area and is primary aquitard between the production zones and the AA sand. The AA sand is approximately 70 feet thick in the production area and constitutes the first underlying sand.

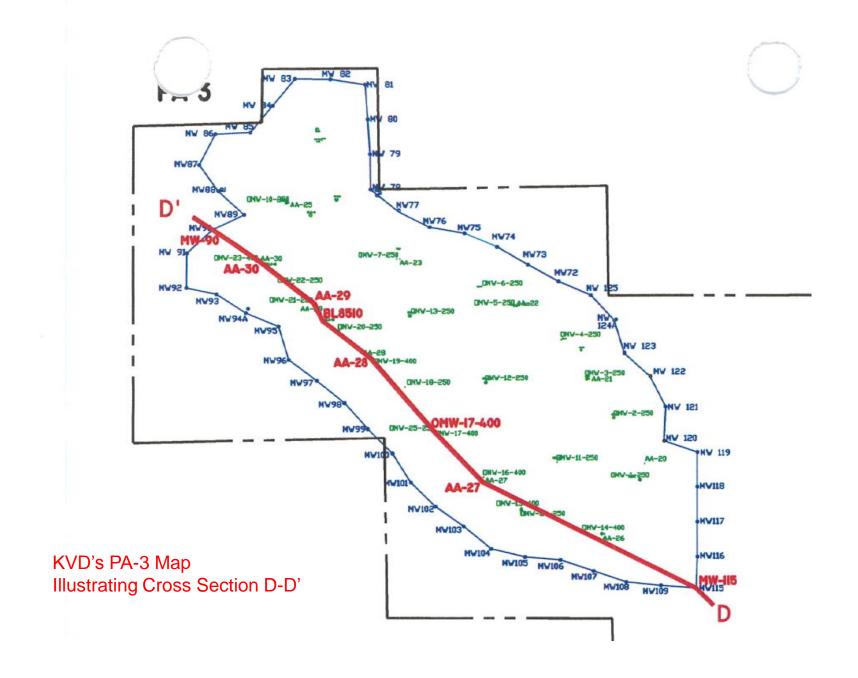
In other portions of the Kingsville Dome vicinity, the AA sand is mineralized and may be developed for uranium production in the future. The AA sand is a very good producer of ground water with the exception of a couple of areas.

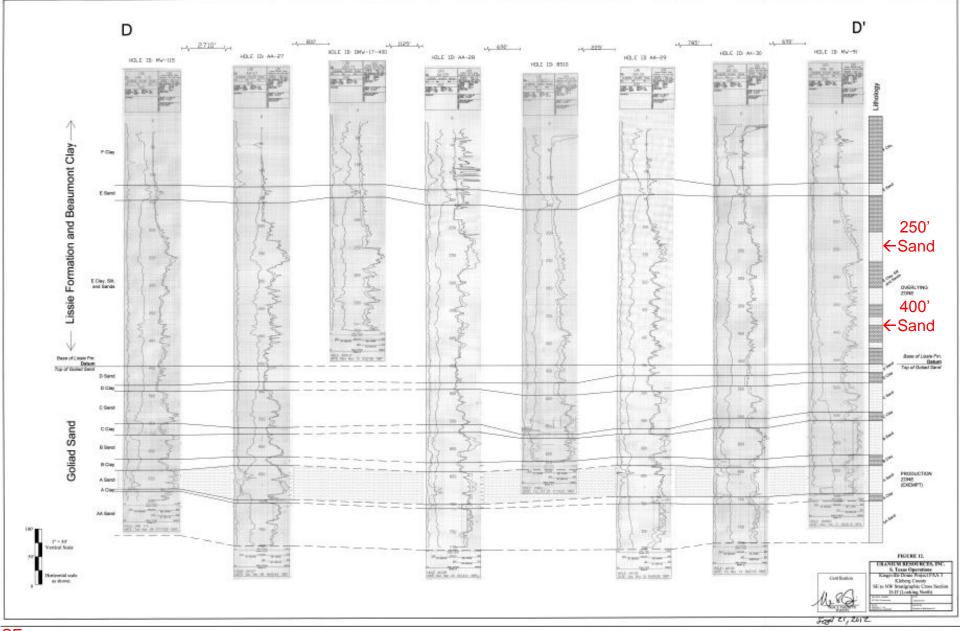
Overlying the B and A sands is a thick shaly zone generally below 400 feet and above 550 feet. This is the interval that contained the C and D sands in PAA's 1 and 2 and has little or no water-bearing capacity.

The C and D sands are predominantly shaled out in this production area. This clay is the primary aquitard between the production zone and the first overlying monitor zone.

The first overlying aquifer is a discontinuous sand that usually occurs at approximately 400 feet. Therefore, URI has labeled this sand the 400' overlying monitor zone. Because the 400' sand is discontinuous, a secondary sand which is continuous throughout PAA#3 and occurs at 250 feet, will also be monitored and similarly is labeled the 250' monitor zone. both sands are mediocre water producers and lie within the Lissie Beaumont Formation.

There is a thick zone from the surface to the top of the 250' sand which is mostly discontinuous silts and clays with little or no water-bearing capacity.





NEELY WATER WELL SERVICE

Route 1, Box 15 A RIVIERA, TEXAS 78379

Nº 14012

296-3225 or 296-3924 OWNER PUMPING EQUIPMENT AND CONDITION WHEEL WINDMILL _____ TOWER ___ PIPE -VANE 2 CYLINDER ___ FOOT VALVE _ BUFFER DEVICE SPRING & HOLDER PUMP RODS TAILBONE CASTING CASING SIZE BRAKE LEVER ELECTRIC PUMP ____ BRAKE BAND HORSEPOWER _ FURL ARMS AND LINK FURL YOKE _ WIRE ___ FURL HANDLE AND WIRE VOLTS _____ AMPS __ PIVOT BOLT _____ PRESSURE TANK _ GEARS CHECK VALVE PRESSURE SWITCH PITMAN ARN ment needed to B&W. WIRE BRACES (W-24) that URI CASING SIZE ANGLE BRAC drilled. See also GIRTS ______ Exploration #54 affects FUSES __ BREAKERS __ PIPE BASE _ POF See Garcia WATER LEVEL Look at the second to the last well on the list of wells.

NEELY WATER WELL SERVICE, INC.

591 South County Road 1090 RIVIERA, TEXAS 78379 (361) 296-3225 or (361) 296-3924 Nº 4416 515

South Well Pumping equipment and condition					
WINDMILL 04 D/8	WHEEL /1-3hp 4" sub motor				
TOWER 19-0465	OIL //- 3hp standard control				
PIPE [] A 0407295	HELMET / 256530 water end				
CYLINDER	VANE 23/ 14 /4 9Alv pipe				
FOOT VALVE	_ BUFFER DEVICE 235 Ft 10/3 jack				
PUMP RODS	SPRING & HOLDER fump CABLE				
CASING SIZE 7" Collar	TAILBONE CASTING / 2"X 4 believed				
ELECTRIC PUMP 2565 30412	_ f BRAKE LEVER / 15/12" TAPE				
HORSEPOWER 3	BRAKE BAND				
PIPE 13,45 2-2" 411-14	FURL ARMS AND LINK				
WIRE 10/3 jack	FURL YOKE				
VOLTS AMPS	FURL HANDLE AND WIRE				
PRESSURE TANK	PIVOT BOLT				
CHECK VALVE	GEARS				
PRESSURE SWITCH FARNAS PRESISE /	BEARINGS				
B & W	PITMAN ARMS				
CASING SIZE 7" Collar	WIRE BRACES				
FUSES	ANGLE BRACES				
BREAKERS V	GIRTS				
WATER LEVEL 126' W 273'	PIPE BASE				
COMMENTS: Julied + siplaces	of bad spipe wire + pump of				
COMMENTS: process of the comments of the comme	mps of 1 11 25				

591 South County Road 1090 RIVIERA, TEXAS 78379 (361) 296-3225 or (361) 296-3924

1/00	3223 01 (301) 230-3324				
OWNER J. G. GARCIA					
SASCIAVILLE South Well	2-25-05				
PUMPING EQUIPMENT AND CONDITION					
WINDMILL	WHEEL				
TOWER	OII/				
PIPE [MELMET				
CYLINDER	VANE 2-7-05 5hrs				
FOOT VALVE	BUFFER DEVICE 2-25-05 2hrs				
PUMP RODS	SPRING & HOLDER				
CASING SIZE	TAILBONE CASTING 7M5				
ELECTRIC PUMP	BRAKE LEVER Abor				
HORSEPOWER	BRAKE BAND				
	FURL ARMS AND LINK				
PIPE	FURL YOKE				
WIRE	FURL HANDLE AND WIRE				
VOLTS AMPS	PIVOT BOLT				
PRESSURE TANK	GEARS				
CHECK VALVE	BEARINGS				
PRESSURE SWITCH	PITMAN ARMS				
B & W	WIRE BRACES				
CASING SIZE					
FUSES	ANGLE BRACES				
BREAKERS	GIRTS				
WATER LEVEL	PIPE BASE				
COMMENTS: falled 3/9 pur	my back out of well.				
her alt summe suring to	14 galo pino back.				
monded to the					
	W 25				

NEELY WATER WELL SERVICE, INC.

N= 43915

591 South County Road 1090 RIVIERA, TEXAS 78379 (361) 296-3225 or (361) 296-3924

OWNER YG GARCIA	3-17-05			
GACCIAVILLE				
PUMPING EQUIPMENT AND CONDITION				
WINDMILL	WHEEL 1-1" Flippen float			
TOWER	on usive complete			
PIPE 🗆	HELMET 1-1" DUC SYS BALL WALVE			
CYLINDER	VANE 4- 1" sxs pue ells			
FOOT VALVE	BUFFER DEVICE 30 ft 1" sch 40 pur			
PUMP RODS	SPRING & HOLDER			
CASING SIZE	TAILBONE CASTING			
ELECTRIC PUMP	BRAKE LEVER			
HORSEPOWER	BRAKE BAND			
PIPE	FURL ARMS AND LINK			
WIRE	FURL YOKE			
VOLTS AMPS	FURL HANDLE AND WIRE			
PRESSURE TANK	PIVOT BOLT			
CHECK VALVE	GEARS			
PRESSURE SWITCH	BEARINGS			
B & W	PITMAN ARMS			
CASING SIZE	WIRE BRACES			
FUSES	ANGLE BRACES			
BREAKERS	GIRTS			
WATER LEVEL	PIPE BASE			
	it water to ste now tink			
COMMENTS: Hooked up C	my want so morninge with			
	W24 was			
	re-directed.			